



**Material Safety Data Sheet**

**FIR No.:** 179944  
**Version Number:** US-US-1

**Level:** 1  
**Release Date:** 2007-06-13

**1. Product and Company Identification**

**Product Name:** MOTORCRAFT TRANSFER CASE FLUID  
**Product Code:** See Attachment  
**Application:** Transfer case fluid  
**Supplier:** Ford Motor Company  
 Attention: MSDS Information, P.O. Box 1899  
 Dearborn, Michigan 48121  
 1-800-392-3673  
  
**Emergency Telephone:** Poison Control Center: 1-800-959-3673  
 CHEMTREC: U.S. and Canada: 1-800-424-9300  
 CHEMTREC: International: 1-703-527-3887

**2. Composition/Information on Ingredients**

This chemical product is a preparation.

PETROLEUM DISTILLATES HYDROTREATED HEAVY PARAFFINIC	64742-54-7	60-100	HAZCOM RSMS_P_SOM
PETROLEUM DISTILLATES, CATALYTIC, REFORMER FRACTIONATOR RES.	68477-31-6	1-5	HAZCOM RSMS_D_ALL
LUBRICATING OILS (PETROLEUM) C15-30 HYDROTREATED, NEUTRAL OIL BASED	72623-86-0	1-5	HAZCOM RSMS_P_SOM

**3. Hazards Identification**

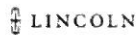
**Health:** This product may cause mild irritation to the eyes and skin. Inhalation of vapors (generated at high temperatures only) may cause mild irritation of the nose, throat, and respiratory tract. Prolonged or repeated contact with this product may dry and/or defat the skin. Prolonged or repeated contact with this product may lead to various skin disorders such as dermatitis or folliculitis.

**4. First-Aid Measures**

**Inhalation:** If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If irritation persists, get medical attention.

**Skin Contact:** Immediately take off all contaminated clothing. Wash skin with soap and water. If irritation persists, get medical attention.

**Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention. If irritation persists, get medical attention.



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**Ingestion:** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Notes to a Physician:** If the affected person's breathing is difficult, give oxygen. This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

5. Fire-Fighting Measures

**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog.

**Specific Methods:** Use water to cool fire-exposed containers, structures, and to protect personnel.

**Specific Hazards:** Combustion may produce the following products: Oxides of carbon, nitrogen, and phosphorus. Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F). Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

**Protection of Firefighters:** Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

**Personal Precautions:** Avoid inhalation of vapors and contact with skin and eyes. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Wear appropriate protective equipment and clothing during clean-up.

**Environmental Precautions:** Do not allow the spilled product to enter public drainage system or open water courses.

**Methods for Cleaning Up:** Contain the discharged material. Absorb the spilled material with an inert absorbent (nonflammable) material.

7. Handling and Storage

**Handling:**

**Technical Measures:** Avoid the generation of oil mists.

**Precautions and Advice for Safe Handling:** Avoid breathing vapor or mist. Avoid prolonged or repeated skin contact with this material.

**Storage: Technical Measures:** Do not reuse the empty container.



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**Storage Conditions:** Do not store near heat, spark or open flame.  
Keep the container in a well-ventilated place.  
Store this product away from strong oxidizing agents.

**8. Exposure Controls/Personal Protection**

**Engineering Measures:** General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Local ventilation is needed in the presence of airborne mists.

**Control Parameters:** If oil mist is generated, observe the OSHA exposure limit of 5 mg/m<sup>3</sup>. Ford Motor Company recommends an exposure limit of 1.0 mg/m<sup>3</sup>.

**Personal Protective Equipment:**

**Respiratory Protection:** None required under normal conditions.  
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**Hand Protection:** Use of impervious gloves is recommended, such as neoprene.

**Eye Protection:** Wear safety glasses.

**Skin and Body Protection:** Light protective clothing is recommended.

**Hygiene Measures:** Wash thoroughly after handling.  
Wash contaminated clothing before reuse.



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**9. Physical and Chemical Properties**

**Specific Gravity:** 0.86-0.87  
**Physical State:** LIQUID  
**Odor:** PETROLEUM  
**Color:** RED  
**pH:** N.AP  
**Temperature Range During which Changes in Physical State Occur:**  
**Flash Point:** 163 °C ASTM D93  
**Explosion Properties:**  
     **UEL:** N.AV  
     **LEL:** N.AV  
**Vapor Pressure:** <1@20°C  
**Vapor Density:** >1 (AIR=1)  
**Solubility:** NEGLIGIBLE IN WATER  
**Viscosity:** 35.8 cSt ASTM D445  
**Evaporation Rate:** <1 (BuAc = 1)

**10. Stability and Reactivity**

**Stability:** This is a stable material.  
 Hazardous polymerization will not occur.

**Conditions and Materials to Avoid:** This product may react with oxidizing agents.

**Hazardous Decomposition Products:** Decomposition of this product may emit oxides of nitrogen and carbon monoxide.  
 Decomposition of this product may emit oxides of sulfur.  
 Decomposition of this product may yield oxides of phosphorus.

**11. Toxicological Information**

**Skin Contact:** The skin sensitization potential of this product has not been fully assessed, assume that contact with the skin may cause allergic contact dermatitis. Risks are higher where prolonged or repeated skin contact with a fluid may occur.  
 Prolonged or repeated contact with this product may dry and/or defat the skin.

**Chronic (Long Term) Toxicity:** Base oil severely refined: Not carcinogenic in animal studies.  
 Representative material passes IP-346, Modified Ames test, and/or other screening tests.



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**12. Ecological Information**

No specific aquatic data available for this product.

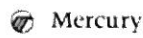
**13. Disposal Considerations**

**Waste from Residues:**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

**Contaminated Packaging:**

No consideration given when disposed of according to local, state, and Federal regulations.



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14. Transport Information

U.S. Department of Transportation (DOT) 49 - CFR 172.101

This product is not regulated as a dangerous good.

Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II

This product is not regulated as a dangerous good.

Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)

This product is not regulated as a dangerous good.

International and Domestic Air Transportation - ICAO & IATA Section 4.2

This product is not regulated as a dangerous good.

International Water Transportation - IMDG Code Amendment 31-02

This product is not regulated as a dangerous good.

15. Regulatory Information

This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

The components of this product are listed on the TSCA Inventory

Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

Don't pollute. Conserve resources. Return used oil to collection centers.

16. Other Information

Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacturer's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, National Parts General Office, MD74, 29500 Plymouth Road, Livonia, MI 48150, USA.

Disclaimer:

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



LINCOLN

Mercury

Motorcraft

Rotunda

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**Attachment**

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<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
XL-12	1 qt.		

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